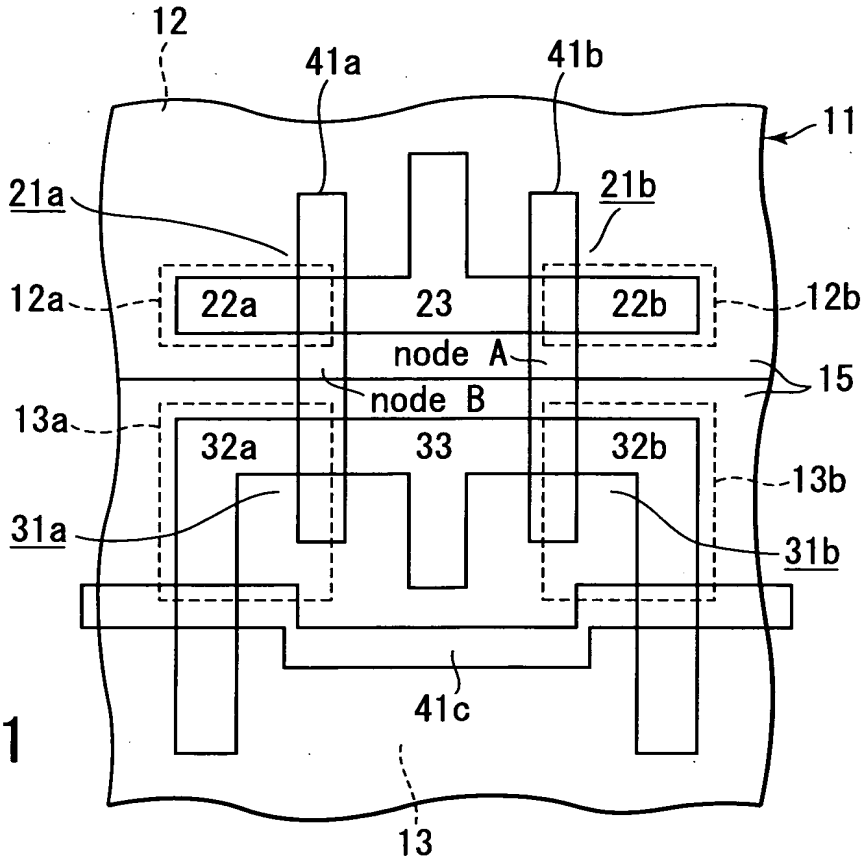
12
41a
41b
11
21a
21b
12a
22a
23
22b
12b
node A
15
node B
13a
32a
33
32b
13b
31a
31b
41c
13

FIG. 1

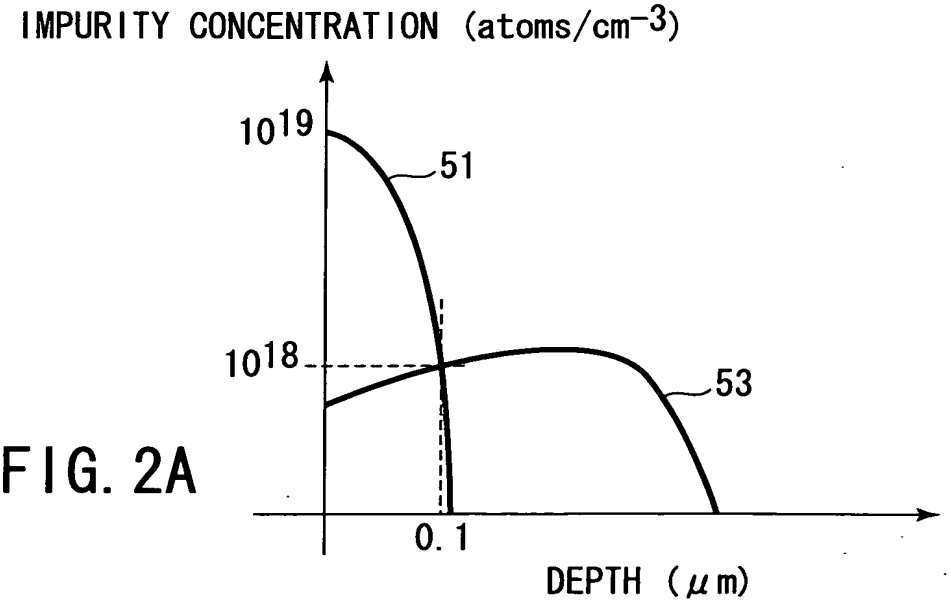
IMPURITY CONCENTRATION (atoms/cm-3)
10^19
51
10^18
53
0.1
DEPTH (μm)

FIG. 2A

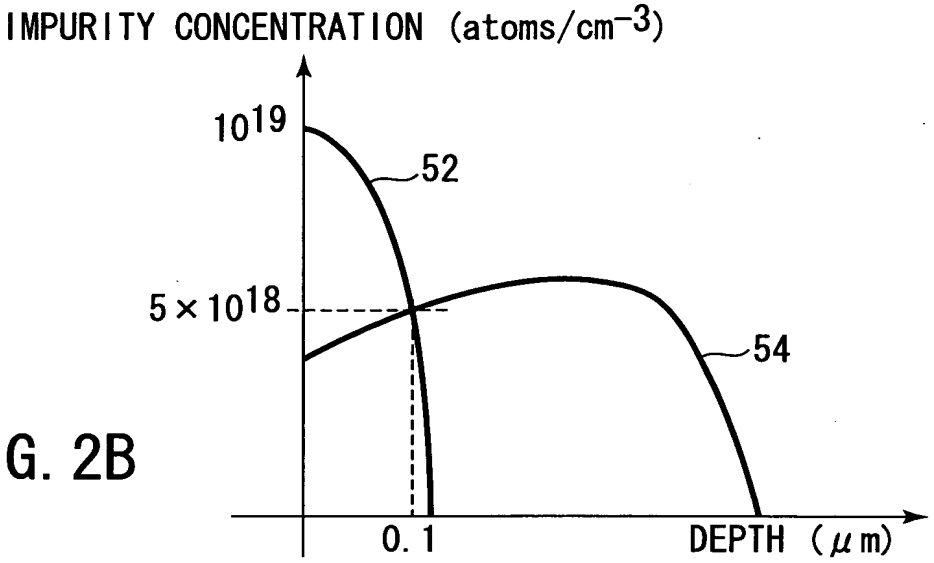

FIG. 2B

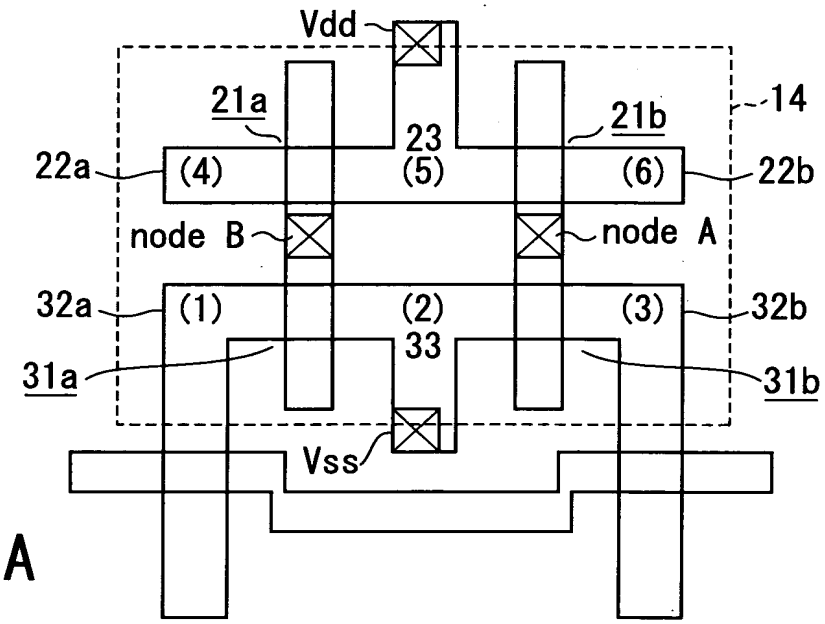

FIG. 3A

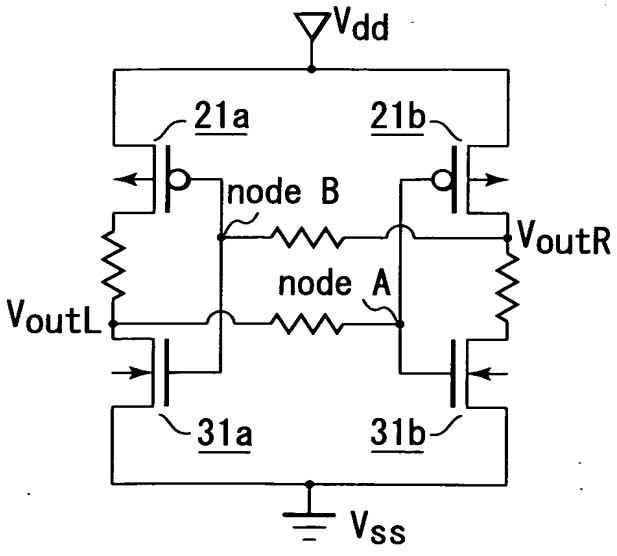

FIG. 3B

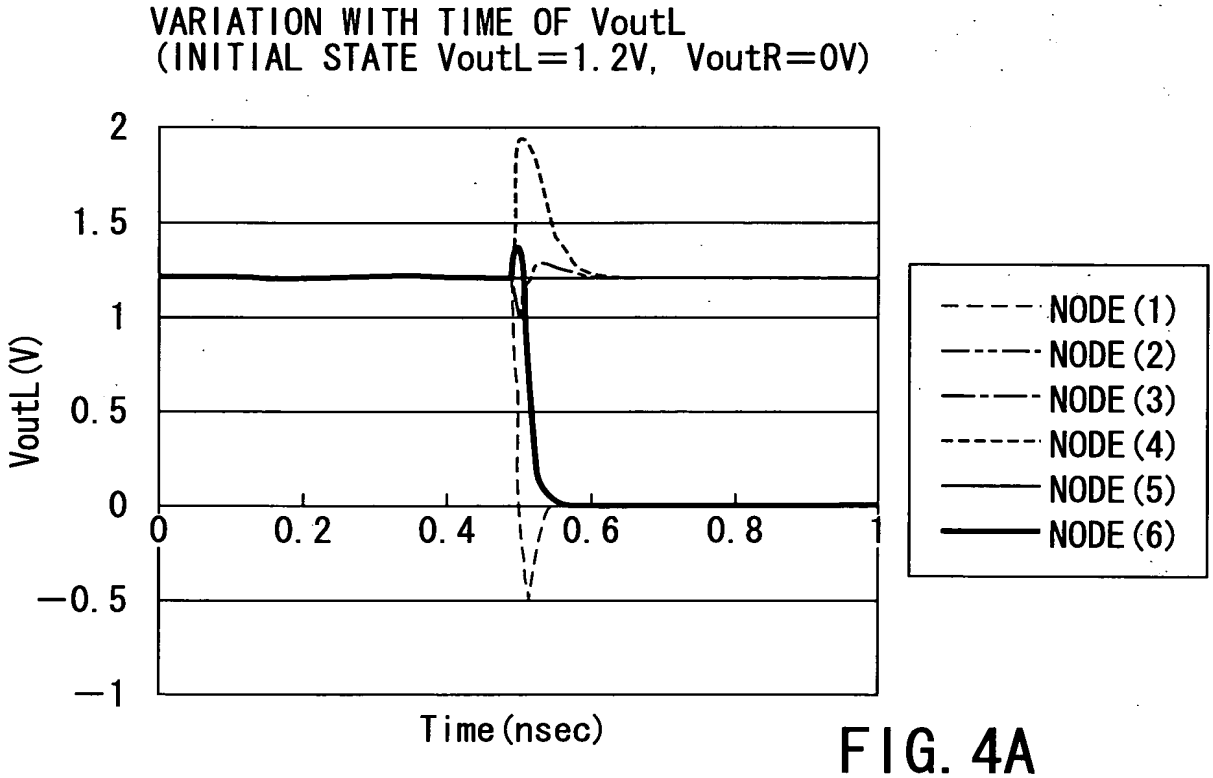
VARIATION WITH TIME OF VoutL
(INITIAL STATE VoutL=1.2V, VoutR=0V)
VoutL(V)
2
1.5
1
0.5
0
−0.5
−1
0
0.2
0.4
0.6
0.8
1
Time(nsec)
NODE(1)
NODE(2)
NODE(3)
NODE(4)
NODE(5)
NODE(6)

FIG. 4A

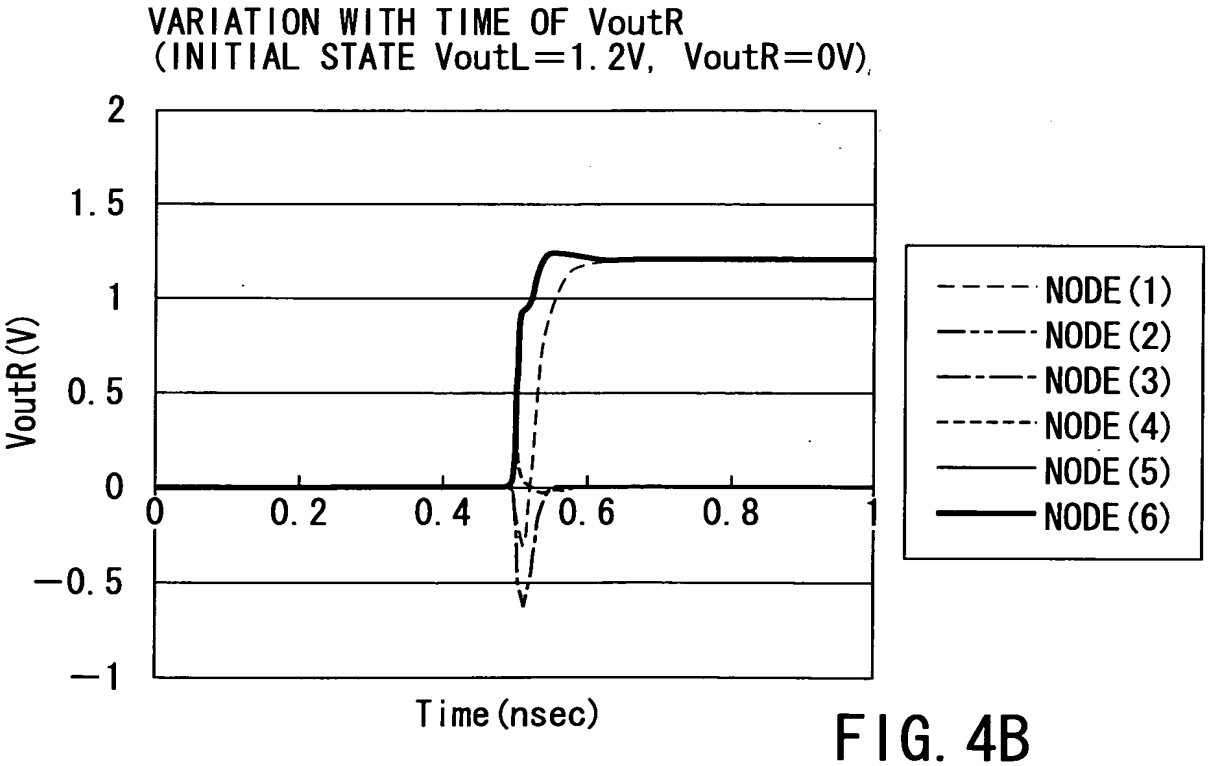
VARIATION WITH TIME OF VoutR
(INITIAL STATE VoutL=1.2V, VoutR=0V)
VoutR(V)
2
1.5
1
0.5
0
−0.5
−1
0
0.2
0.4
0.6
0.8
1
Time(nsec)
NODE(1)
NODE(2)
NODE(3)
NODE(4)
NODE(5)
NODE(6)

FIG. 4B

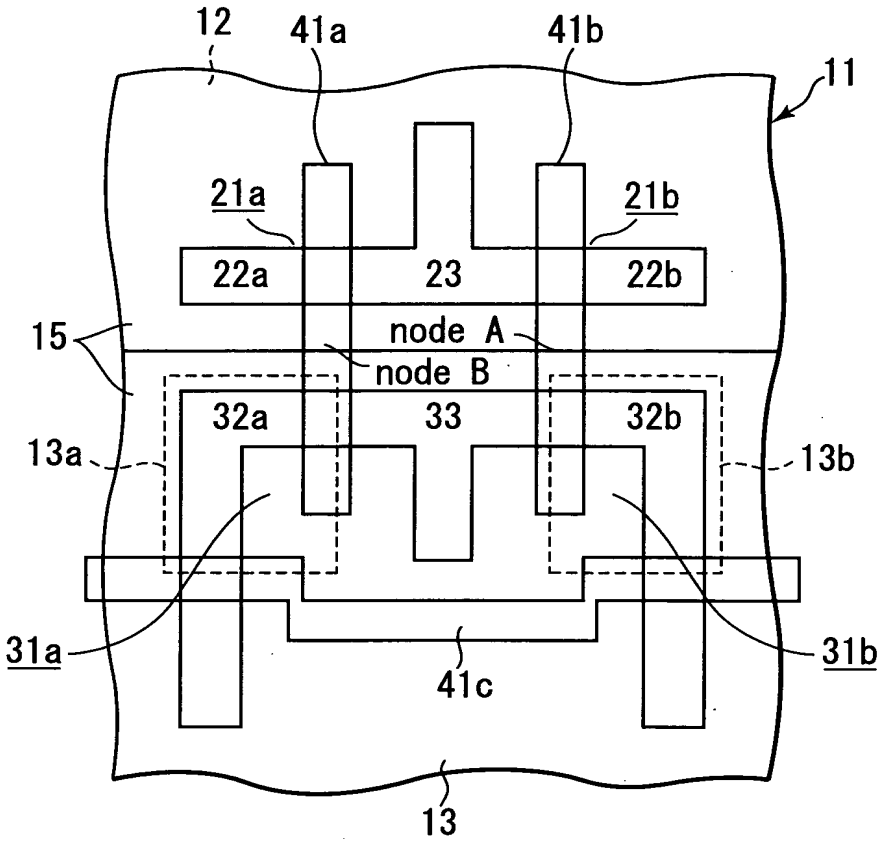
12
41a
41b
11
21a
21b
22a
23
22b
15
node A
node B
32a
33
32b
13a
13b
31a
31b
41c
13

FIG. 5

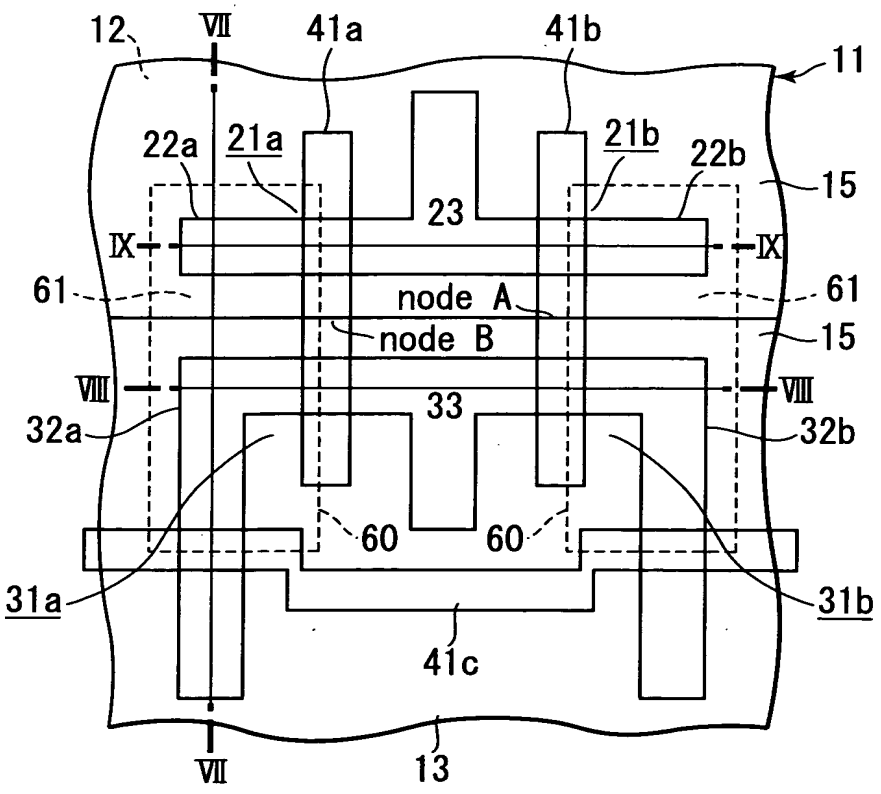
12
VII
41a
41b
11
22a
21a
21b
22b
15
23
IX
IX
61
node A
61
node B
15
VIII
VIII
33
32a
32b
60
60
31a
31b
41c
VII
13

FIG. 6

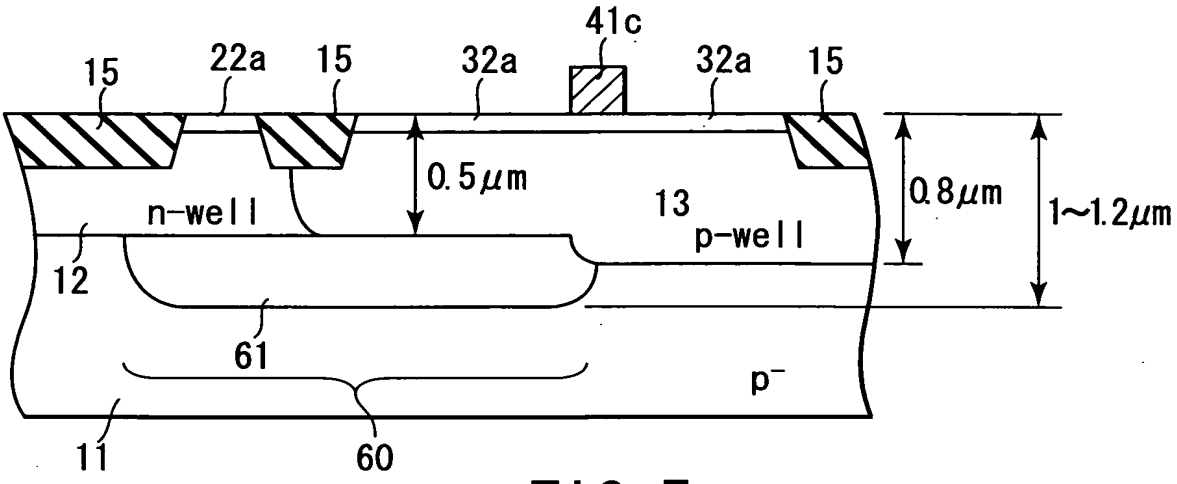

FIG. 7

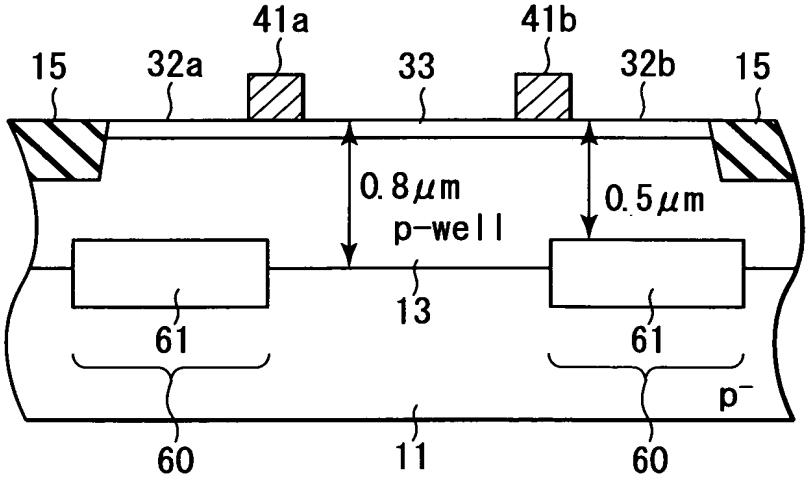

FIG. 8

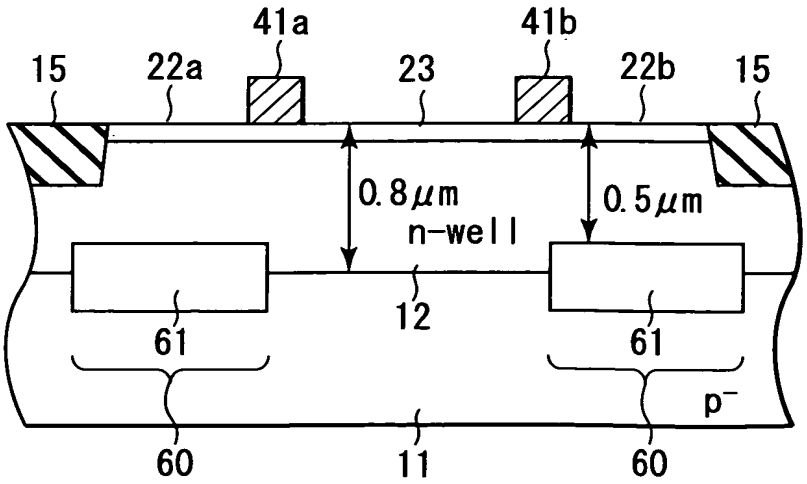

FIG. 9

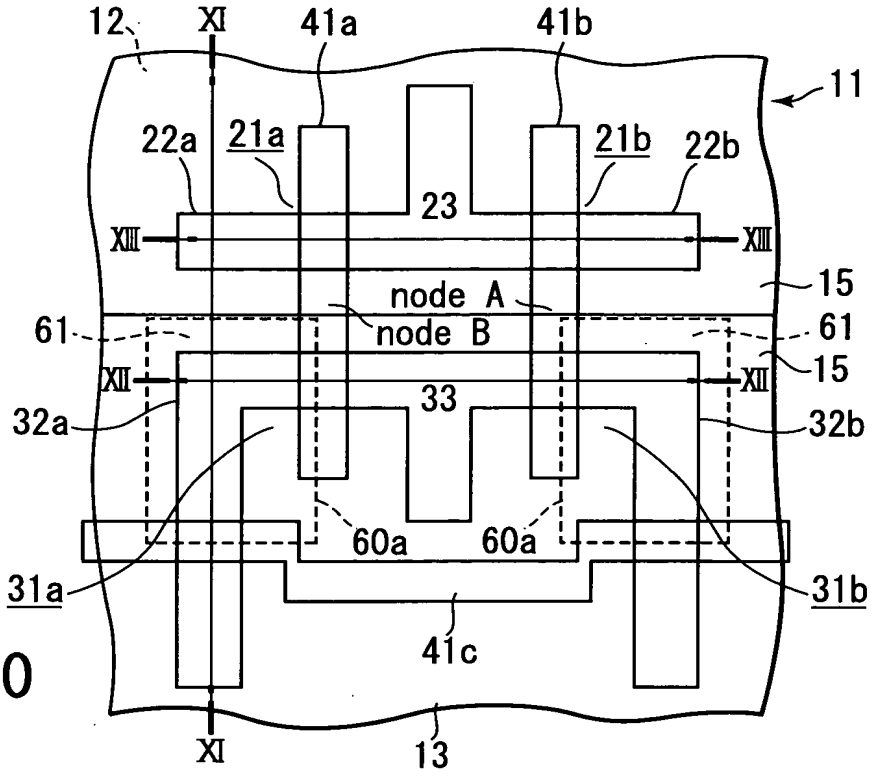

FIG. 10

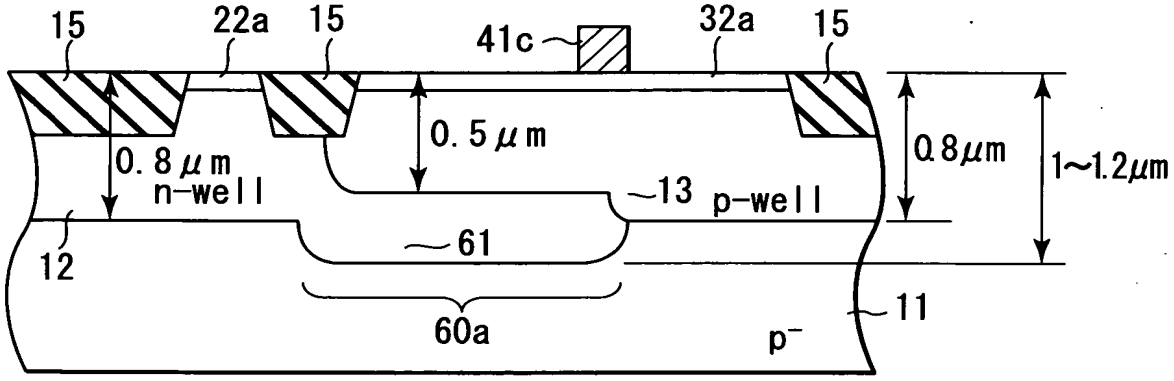

FIG. 11

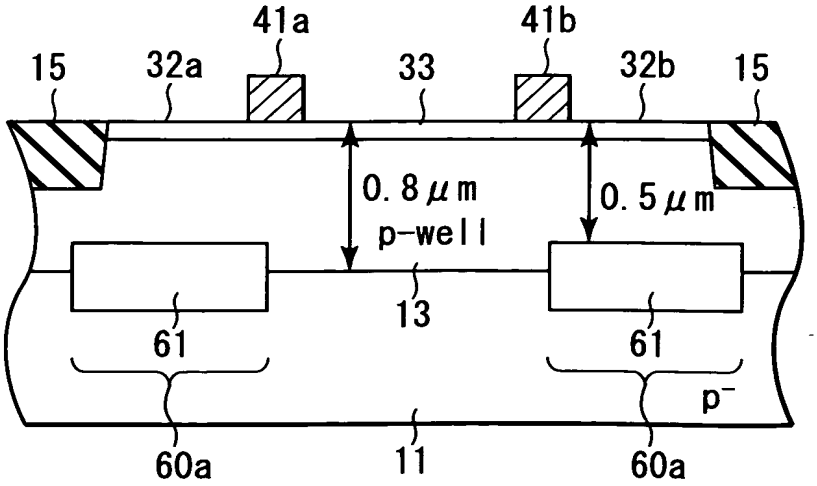

FIG. 12

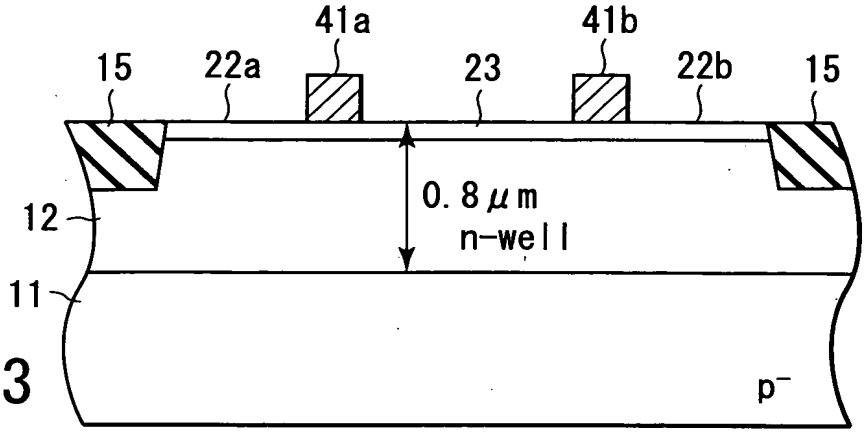

FIG. 13

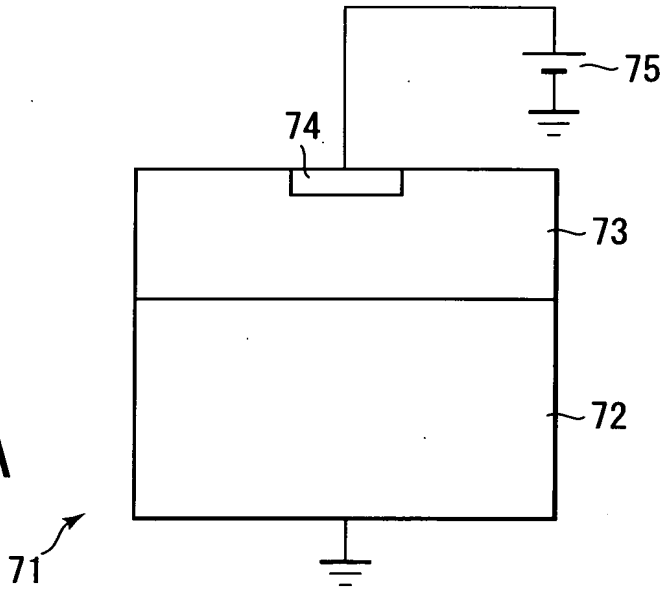

FIG. 14A

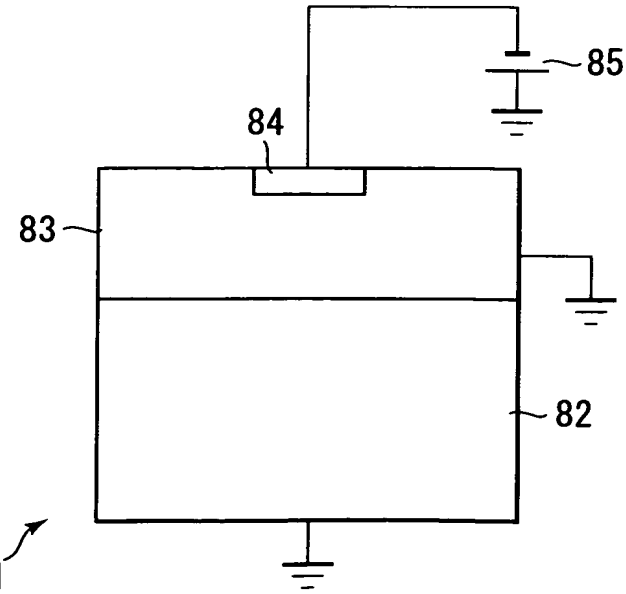

FIG. 14B